

E&) */%*'?!&2'!2#5: *'35/5*3!7'&:56*!/%*!: (3/!, (V&'5/1!&4!";(30(P3!7&3/.3*\$('1!*62\$(/5&#<Q2'! (\$(6*, 5\$!7'&)'(, 3!'(#)*!4'&, !3%&'/.



$$\begin{split} & E\%^*!3/(/^!\&4!9"!53!3/^\&\#)!, \quad (5\#;1!-^*\$(23^*!\&4!\&2'!5, \quad 7'\&:5\#)!453\$(;!^*\#:5'\&\#, \quad ^*\#/?!\&'!>\%(/!\exists;50^*!/\&!\$(;;!\&2'!'./\%'^**.;^*))^*6!3/\&\&; \\ & (;;!\&2'!'./\%'^**.;^*))^*6!3/\&\&; \\ & (!8\%^!!45'3/!;^*)!53!3/(/^*!42\#65\#) \\ & (!42\#65\#) \\ & (!42\#65\#) \\ & (!42\#65\#) \\ & (!43\%^*(-5;5/1!)>^*@^*!3^*\#/!4^*\&, \\ & (!44\%^!)^*(-1,0)^* \\ & (!44\%^!)^*(-1,0)^* \\ & (!44\%^!)^*(-1,0)^* \\ & (!44\%^!)^*(-1,0)^* \\ & (!44\%^!)$$

E%*!3*\$!;*)!&4!/%*!3/&&;!53!*#'&;;, *#/!.!(#6!/%(#03!/&!/%*!3/(-5;5/1!4'&, !/%*!3/(/*?!&2'! *#'&;;, *#/!53!#&>!)'&>5#)?!-2\$05#)!#(/5&#(;!/'*#63d!

<u>0(3/!87'5#)</u>!, ('0*6!/%*!45'3/!1*('.&:*'.1*('!*#'&;;, *#/!5#\$'*(3*!35#\$*!eZRRU!/%53!87'5#)! 8*, *3/*'?!3/26*#/!%*(6\$&2#/!53!27!(#&/%*'!fГ <

C(/5&#(;;1?!5#!C(;;?!45'3/./5, *!4'*3%, *#!*#'&;;, *#/3!>*'*!6&>#!S<g[<]2/!9"@!#2, -*'!&4!45'3/./5, *!4'*3%, *#!5#\$'*(3*6!-1!Rg[!&:*'!/%*!7'*:5&23!1*('<]E%(/@!, *(#5#)42;!7'&)'*33!M!(#6!"#"\$%\'"()#*&+(,\$-\$.*/&0%1!!

"3!*#'&;;, *#/!%(3!)'&>#?!>*@.*!-**#!(-;*!/&!0**7!/25/5&#!;&>!>%5;*!5#\$'*(35#)!(#6!*T7(#65#)!
45#(#\$5(;!(56!&44*'5#)3dJ&/%!/%*!(:*'()*!6*-/!&4!9"!)'(62(/*3!(#6!/%*!7*'\$*#/()*!&4!)'(62(/*3!
>5/%!6*-/!('*!-*;&>!#(/5&#(;!(#6!'*)5&#(;!(:*'()*3d"#6!(/!/%*!3(, *!/5, *?!(:*'()*17&3/.
)'(62(/5&#!>()*3!4&'!&2'!3/26*#/3!('*!%5)%*'d

E%*!9"!E*(\$%*'!=#/*'#3%57!8\$%&;('3%57!53!(I4(#/(3/5\$!*T(, 7;*!&4!/%&3*!*44&'/3!5#!(\$/5&#d=/!\$&:*'3!/25/5&#?!4**3?!(#6!(!3/57*#6!4&'!(77;5\$(#/3!/&!\$&, 7;*/*!/%*5'!3/26*#/!/*(\$%5#)dg\!3/26*#/3!>*'*!(>('6*6!/%*!3\$%&;('3%57!;(3/!1*('d!

G*!0#&>!";(30(!#**63!/*(\$%*'3dE%*!7'&)'(, 3!(/!&2'!/%'**!9#5: *'35/5*3!(;;&>!42/2'*!*62\$(/&'3!/&!)(5#!/%*5'!\$'*6*#/5(;3!:5'/2(;;1!(#1>%*'*!/%*1!;5: *d"#6!54!&#*!7'&)'(, !53#@!&44*'*6!(/!3(1?!9""!5/@!&44*'*6!(/!9"C!&'!9"8!(#6!(:(5;(-;*!5#!/%(/!;&\$(/5&#d/*(\$%(;(30(<&')!/(0*3!1&2!/&!(;;!/%*!(:*#2*3!(:(5;(-;*!4&'!1&2!/&!-*\$&, *!(!/*(\$%*'!.!#&!, (//*'!>%*'*!1&2!;5: *d"

"#6!/%*!45#(;!;*)!&4!/%(/!3/&&;!53!'*3*('\$%?!(#6!&2'!7'&)'*33!/%*'*!53!(;3&!32-3/(#/5(;d9"!'*\$*5: *6! he\$\!, 5;;5&#!5#!'*3*('\$%!'*: *#2*!;(3/!1*('!(3!(!313/*, !.!&: *'!hgZ!, 5;;5&#!, &'*!/%(#!\!1*('3!()&d 9"C!53!&2'!;*(6*'!5#!'*3*('\$%!6&;;('3?!>5/%!&: *'!heZZ!, 5;;5&#!'*\$*5: *6!;(3/!453\$(;!1*('d!

9"C!53!i R!5#!/%*!#(/5&#!4&'!"'\$/5\$!B*3*('\$%?!(#6!>*@*!(5, 5#)!/&!)'(62(/*!, &'*!W%dD3!/&! (\$%5*:*!E5*'!R!B*3*('\$%!8/(/23!/%*'*d''\$%5*:5#)!/%(/!>5;;!-'5#)!, &'*!'*3*('\$%?!/(;*#/?!(#6!7'*3/5)*!/&!";(30(d!

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"/!9"8!!4(\$2;/1!(#6!3/26*#/3!%(: *!-**#!6&5#)!)'&2#6.-'*(05#)!'*3*('\$%!&#!>%(;*!7&72;(/5?! /%*5'!%*(;/%?!%(-5/3?!(#6!5, 7(\$/!&#!'';(30(\dQ#*!&4!/%*5'!<u>7'&7&3*6!7'&V*\$/3</u>!>&2;6!, /&'!%2, 7-(\$0!>%(;*3!5#!N2#*(2!.!&#*!&4!/%*!, &3/!:(;2(-;*!, ('5#*!'*3&2'\$*3!(#6!(!0*1!6'5:5#)! (//'(\$/5&#!4&'!);&-(;!/&2'53, !(#6!:535/&'3\d

F &3/!&4!/%*3*!('*!\$&, 7*/5/5: *!4*6*'(;!6&;;('3!.!54!>*!656#@'!)*/!/%*, ?!/%*1@6!-*!)&5#)!/&!&/%*'! 2#5: *'35/5*3!(#6!3/(/*34Q2'!>&';6.\$;(33!4(\$2;/1!(#6!7'&)'(, 3!('*!\$;*(';1!'*\$&)#5A*6!(3!*T7*'/3!#(/5&#(;;1!(#6!);&-(;;14

LT/*'#(;?!\$&, 7*/5/5: *;1!42#6*6!'*3*('\$%!53!'*;*: (#/!(#6!5, 7&'/(#/!4&'!'';(30(<!5#\$;26*3!'*, &/*! 3*#35#)!>&'0!5#!\$&(3/(;!'*)5!/&!(33*33!3*(!5\$*?!(#6!5/3!5, 7(\$/!&#!\$&(3/(;!\$&, , 2#5/5*3<!!

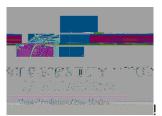
"#6!5/!(;3&!5#\$;26*3!&2'!6*\$(6*3.;&#)!>&'0!>5/%!/%*!C(/5&#(;!=#3/5/2/*3!&4!d*(;/%!jC=dk!&#!
3/'(/*)5*3!/&!'*62\$*!325\$56*3!5#!'2'(;!\$&,, 2#5/5*3dE%*!0*1!7'(\$/5\$*3!4'&, !/%(/!'*3*('\$%!('*!#&>!-*5#)!(77;5*6!/&!325\$56*!7'*:*#/5&#!*44&'/3!&#!, 5;5/('1!-(3*3!5#!'';(30(dE%*!-'*(6/%!&4!/%*!>&'0!53!5, 7'*335:*?!(#6!6**7;1!, *(#5#)42;d!

+;*(';1?!/%*'*@!(!;&/!/&!\$*;*-'(/*!/%53!1*('dE%*!453\$(;!3/(-5;5/1!>*@:*!(\$%5*:*6!53!7(15#)!65:56*#63?!(#6!(;;&>3!23!/&!-*!42/2'*.4&\$23*6d

8&, *!%5)%;5)%/3X!E%53!1*('?!/%*!9"!8\$%&;('3!7'&)'(, !>5;;!\$*;*-'(/*!5/3!e\/%!(##5: *'3('1\d''#6!
*: *#!, &'*!*T\$5/5#)X!/%*!#2, -*'!&4!3/26*#/3!235#)!/%*!";(30(!W*'4&', (#\$*!8\$%&;('3%57?!&'!"W8?!

5#\$'*(3*6!\Z[!&: *'!;(3/!1*('?!/%*!45'3/!5#\$'*(3*!5#!23*!35#\$*!eZRg\d=, 7'&:5#)!(\$\$*33!/&!"W8!53!&#*!

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<u>Q: *'!/%*!;(3/!RZ!1*('3</u>?!>*P: *!(>('6*6!('&2#6!fS?ZZZ!6*)'**3!(#6!\$*'/545\$(/*3!I !mZ!7*'\$*#/!&4! >%5\$%!b2(;541!)'(63!4&'!'';(30(@!%5)%*3/.6*, (#6!*, 7;&1, *#/!45*;63d'')(5#?!YZ[!&4!9''!)'(63! >&'0!%*'*!5#!'';(30(!>5/%5#!(!1*('!(4/*'!)'(62(/5&#d

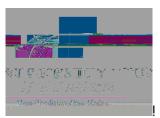
J'&(6!7'&)'(, !&44*'5#)3!(#6!6*)'**!7(/%>(13!)5: *!3/26*#/3!'&-23/!&77&'/2#5/5*3!4&'!32\$\$*33!5#!
\$&;;*)*!(#6!5#!";(30(@!>&'04&'\$*\]

E(0*!9""@!8\$%&&;!&4!8&\$5(;!G&'0</mark><!0(3/!37'5#)?!/%*1!'*\$*5: *6!)'(#/3!4'&, !, 2;/57;*!7('/#*'3!/&!%*;7!*62\$(/*!42/2'*!n.Re!\$&2#3*;&'3!4&'!/%*!"#\$%&'()*!8\$%&&;!D53/'5\$/<!E%*!)'(#/!>5;;!(;;&>!23!/&!;*:*'()*!&2'!\$2''*#/!7'&)'(, 3!(#6!*#32'*!3/26*#/3!)*/!/%*!37*\$5(;5A*6!, *#/(;!%*(;/%!/5#5#)!/%*1!#**6!/&!>(;0!'5)%/!5#/&!V&-3!(4/*'!)'(62(/5#)<!

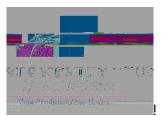
E%*!9"8dF('5/5, *!L62\$(/5&#!+*#/*'!7'&:56*3!%(#63.&#!/'(5#5#)!4&'!3%57-25;65#)!(#6!'*7(5'd C(\$2;/1!(#6!3/(44!>&'0!>5/%!/%*!";(30(!F('5#*!d5)%>(1!813/*, !(#6!9<8d+&(3/!1 2('6!/&!/(5;&'! \$&2'3*3!/&!5#623/'1!#**63?!(#6!7;(\$*!3/26*#/3!5#!5#/*'#3%573!/%(/!;*(6!/&!%5)%.7(15#)!, ('5/5, *!\$('**'3d!!

"#6!37*(05#)!&4!7*&7;*!.!&2'3!('*!/%*!/57!&4!/%*!37*('!>%*#!5/!\$&, *3!/&!-25;65#)!\$&,, 2#5/1!
'*;(/5%573<!C(\$2;/1!(#6!3/(44!('*!/'2;1!, (05#)!(!6544*'*#\$*<!

E%*'*@!2&/30/(2&*/-\$4



=4!1&2!'*, *, -*'!#&/%5#)!*;3*!4'&, !, 1!'*, ('03!/&6(1?!=!> (#/!1&2!/&!'*, *, -*'!/%(/<!G*!('*!(!



050*!/%*!\$/'2\$/5&#!, (#()*, *#/!7'&)'(, ?!W'&\$*33!E*\$%!7'&:56*3!4;*T5-;*!/'(5#5#)!/%'&2)%!